



FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO.

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type / Monitoring Unit | Emissions and Requirements | Conditions |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| PROCESS 1: CRUDE DISTILLATION | | | | | P13-1 |
| SYSTEM 3 : CRUDE DISTILLATION HEATERS | | | | | |
| HEATER, CRUDE, H-1, PROCESS GAS, REFINERY GAS, WITH LOW NO _x BURNER, AIR PREHEATING, 198.98 MMBTU/HR WITH A/N: 470259, <u>509444</u> BURNER, REFINERY GAS, JOHN ZINK, MODEL PSMR-17, WITH LOW NO _x BURNER, 12 TOTAL , 198.98 MMBTU/HR | D9 | | NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE** | CO:35 PPMV(5)RULE 1303(a)(1)-[BACT-5-10- 1996]; CO: 2000 PPMV (5A) [RULE 407, 4-2- 1982]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981] | A63.10, <u>A99.17</u> , A305.1, B61.1, D28.3, D90.7, D328.1 *** H23.3, I296.1 |

- | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>* (1) Denotes RECLAIM emission factor</p> <p>(3) Denotes RECLAIM concentration limit</p> <p>(5)(5A)(5B) Denotes command and control emission limit</p> <p>(7) Denotes NSR applicability limit</p> <p>(9) See App B for Emission Limits</p> | <p>(2) Denotes RECLAIM emission rate</p> <p>(4) Denotes BACT emission limit</p> <p>(6) Denotes air toxic control rule limit</p> <p>(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)</p> <p>(10) See Section J for NESHAP/MACT requirements</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
- ** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

P13.1 All devices under this process are subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|-------------|------------------|--------------|
| Benzene | 40CFR61, SUBPART | FF |

[40CFR 61 Subpart FF, 12-4-2003]

A63.10 the operator shall limit emissions from this equipment as follows:

| Contaminant | Emissions Limit |
|-----------------|-------------------------------------------------|
| CO | Less than or equal to 123 lbs per day |
| PM | Less than or equal to 78 lbs per day |
| ROG | Less than or equal to 67 lbs per day |
| SO _x | Less than or equal to 88493 lbs in any one year |



FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO.

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

The operator shall calculate the emission limit(s) of CO based on the AQMD certified continuous monitor pursuant to Rule 218. This monitoring system shall have the capability to show the cumulative daily emissions.

The operator shall calculate the emission limit(s) of SOx by using daily emission data reported to the AQMD pursuant to regulation XX, for any 365-day period to demonstrate exemption from PSD requirements.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D9]

A99.17 The 35 ppm CO limit shall not apply to this heater during the following periods:

a) Up to 2 hours during a heater shutdown, OR

b) the time that the heater process outlet temperature reading is less than 680 degree F during a heater shutdown/startup.

However, the daily emission rate of 123 lbs/day specified in condition A63.10 shall apply at all times.

For the purposes of this condition, a heater shutdown/startup is defined as when the fuel gas to the heater drops below 15 MSCFH.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition: D9]

A305.1 Whenever this equipment is in operation, the SCR serving the equipment, C764, is not required to be in operation, but may be operated at any control efficiency provided that the emission concentrations being monitored by the certified CEMS serving this equipment is below the valid upper range specified in the approved CEMS plan.

[RULE 2010, 5-6-2005]

[Devices subject to this condition : D9]

B61.1 the operator shall not use fuel gas containing the following specified compounds:

| Compound | ppm by volume |
|----------|---------------|
|----------|---------------|



FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO.

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

| | |
|-------------------------------|-----|
| H ₂ S greater than | 160 |
|-------------------------------|-----|

[40CFR 60 Subpart J, 10-4-1991]

[Devices subject to this condition : D9, D32, D89, D90, D112, D216, D810, D812]

D28.3 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted to confirm the emission limits of this equipment as specified in condition A63.10

The test shall be conducted to determine and report the mass emission rate in pound per hour for NO_x, SO_x, ROG, CO, total PM, and PM₁₀.

Source test shall be conducted when this equipment is operating at 80 percent or greater of the permitted maximum rated capacity.

The test shall be conducted to confirm the CO emission concentration limit of 35 ppm, corrected to 3 percent oxygen, dry basis.

The test shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up.

The district shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted at least once every three years for ROG, CO, and PM₁₀ emissions

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D9, D32]

D90.7 The operator shall continuously monitor the H₂S concentration in the fuel gases before being burned in this device according to the following specifications:

The operator may monitor the H₂S concentration at a single location for fuel combustion devices, if monitoring at this location accurately represents the concentration of H₂S in the fuel gas being burned in this device.

The operator shall use gas chromatograph meeting the requirements of 40CFR60 Subpart J to monitor the parameter.

The operator shall also install and maintain a device to continuously record the parameter being monitored.



FACILITY PERMIT TO OPERATE TESORO REFINING AND MARKETING CO.

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[40CFR 60 Subpart J, 10-4-1991]

[Devices subject to this condition : D9, D32, D89, D90, D112, D216, D217, D810, D812]

D328.1 The operator shall determine compliance with the CO emission limit(s) either: (a) conducting a source test at least once every five years using AQMD method 100.1 or 10.1; or (b) conducting a test at least annually using a portable analyzer and AQMD-approved test method. The test shall be conducted when the equipment is operating under normal conditions to demonstrate compliance with CO emission limit(s). The operator shall comply with all general testing, reporting, and recordkeeping requirements in sections E and K of this permit.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 404, 2-7-1986; RULE 405, 2-7-1986]

[Devices subject to this condition : ~~D9~~, D32, D89, D90, D216, D217]

Note: CO CEMS is required per condition A63.10; also CO source tests is required every 3 years per condition D28.3; therefore, this condition is not required for D9

H.23.3 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|-------------|------------------|--------------|
| H2S | 40CFR 60 Subpart | J |

[40CFR 60 Subpart J, 10-4-1991]

[Devices subject to this condition : D9, D32, D89, D90, D112, D216, D217]

I296.1 This equipment shall not be operated unless the operator demonstrates to the Executive Officer that the facility holds sufficient RTCs to offset the prorated annual emissions increase for the first compliance year of operation. In addition, this equipment shall not be operated unless the operator demonstrates to the Executive Officer that, at the commencement of each compliance year after the first compliance year of operation, the facility holds sufficient RTCs in an amount equal to the annual emissions increase.

[**RULE 2005, 5-6-2005**] [Devices subject to this condition : D1617, D1618, D1645, D1646]